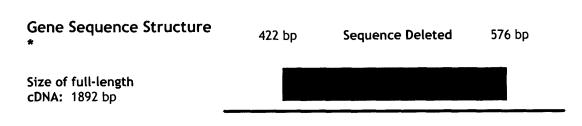
CCGGGGGAGGCTCTTAGGATGTTGTGCTCCGCGGGGCTCAGACGAAATCTTCTGTGAATGGAAG AAATGCTTCCAAGCAAACAGCCACTACCAGAACAACTGAGAAAGAGGCCAGAGCGCGAGTTCTC AAACCCTGATTTCGCAGGGGCCGGAGGGGGGATATTGGAGAGAAGGTATTTCCAGTCACGCGCAG CCAAAGAGATGGAGTACGACGCTTACAACGACTCCGGCATCTATGATGATGAGTACTCTGATGG CTTTGGCTACTTTGTGGACTTGGAGGAGGCGAGTCCGTGGGAGGCCAAGGTGGCCCCGGTCTTC CTGGTGGTGATCTACAGCTTGGTGTGCTTCCTCGGTCTCCTAGGCAACGGCCTGGTGATTGTCA TCGCCACCTTCAAGATGAAGAAGACCGTGAACACTGTGTGGTTTGTCAACCTGGCTGTGGCCGA CTTCCTGTTCAACATCTTTTTGCCGATGCACATCACCTACGCGGCCATGGACTACCACTGGGTG TTCGGGAAGGCCATGTGCAAGATCAGCAACTTCTTGCTCAGCCACAACATGTACACCAGCGTCT TCCTGCTGACTGTCATCAGCTTTGACCGCTGCATCTCCGTGCTGCTCCCCGTCTGGTCCCAGAA CCACCGCAGCATCCGCCTGGCCTACATGACCTGCTCGGCCGTCTGGGTCCTGGCTTTCTTCTTG AGCTCCCCGTCCCTTGTCTTCCGGGACACCGCCAACATTCATGGGAAGATAACCTGCTTCAACA ACTTCAGCTTGGCCGCCCTGAGTCCTCCCCACATCCCGCCCACTCGCAAGTAGTTTCCACAGG GTACAGCAGACACGTGGCGGTCACTGTCACCCGCTTCCTTTGCGGCTTCCTGATCCCCGTCTTC ATCATCACGGCCTGCTACCTTACCATCGTCTTCAAGCTGCAGCGCAACCGCCTGGCCAAGAACA AGAAGCCCTTCAAGATCATCACCATCATCATCACCTTCTTCCTCTGCTGGTGCCCCTACCA CACCCTCTACCTGCTGGAGCTCCACCACACGCTGTGCCAAGCTCTGTCTTCAGCCTGGGGCTA CCCCTGGCCACGGCCGTCGCCATCGCCAACAGCTGCATGAACCCCATTCTGTACGTCTTCATGG CACAGGCCCCTCCTCCTACCCCAGTCACAGGAGCTTCACCAAGATGTCGTCTTTGAATGAGAAG GCTTCGGTGAATGAGAAGGAGACCAGTACCCTCTGAACCTCACCTGGGAATGTCCCCCAAAGGT GCCACGGCCAGGGACGCCTAGGGACTTGTCTCCGGAAGTGGGAGACATGCCGGGAGCCTTTGG GAATGCTCCAACGCCCACTGAATTTTGCACAAGGCGGCTCATGTTTTAAGTGGGGTTCCCAAGT GTGGACACTCTTCCAGTAAAATGGCAGGCAAGCAACCCGAGCTTCTACAACAGGAGCAGGGGAC CGACTGTGACTCAGAAAAGGGAGCATTTCTGAAGCCAAGACTTGAGCTGTGACCAACATA CAGGCCAACATACACGATGTCGCCGTGCATGCCCTGAACATGCTGCGCAGTTTTCGTGGGTGAG GAAGTTACCGCAAACCCATTGCAGACCTGTTATGGCAACATGACAGTCAAACCAACAAAGCCCA ATACACCCCAACATCCTCCAAGACCTTGACTTTGGATTTCAGAAGAACGGGGGGTGGGGGGAAC GAGGACCTGAGGGTTAATTTCGAGCTTGGCGAAGCC (SEQ ID NO:1)

## FIGURE 1

## underlined = deleted in targeting construct [] = sequence flanking Neo insert in targeting construct

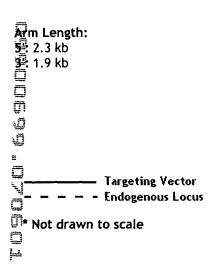
CCGGGGGAGGCTCTTAGGATGTTGTGCTCCGCGGGGCTCAGACGAAATCTTCTGTGAATG GAAGAAATGCTTCCAAGCAAACAGCCACTACCAGAACAACTGAGAAAGAGGCCAGAGCGC GAGTTCTCAAACCCTGATTTCGCAGGAGCCGGAGGGGGATATTGGAGAGAAGGTATTTCC AGTCACGCGCAGTAACAGACCAGCCAAGGACCAGGACTGGAGTTCTGTTCTACAACGGTG GAACAGTGAACGGTCTCCAAAG [AGATGGAGTACGACGCTTACAACGACTCCGGCATCTA TGATGATGAGTACTCTGATGGCTTTTGGCTACTTTGTGGACTTGGAGGAGGCGAGTCCGTG GGAGGCCAAGGTGGCCCCGGTCTTCCTGGTGGTGATCTACAGCTTGGTGTGCTTCCTCGG TC] TCCTAGGCAACGGCCTGGTGATTGTCATCGCCACCTTCAAGATGAAGAAGACCGTGA ACACTGTGTGTGTCAACCTGGCTGTGGCCGACTTCCTGTTCAACATCTTTTTGCCGA TGCACATCACCTACGCGGCCATGGACTACCACTGGGTG [TTCGGGAAGGCCATGTGCAAG ATCAGCAACTTCTTGCTCAGCCACAACATGTACACCAGCGTCTTCCTGCTGACTGTCATC AGCTTTGACCGCTGCATCTCCGTGCTCCCCGTCTGGTCCCAGAACCACCGCAGCATC  $\tt CGCCTGGCCTACATGACCTGCTCGGCCGTCTGGGTCCTGGCTTTCTTCTTGAGCTCCCCG$ TCCCTTGTCTTCCGGGACACCGCCAACATTCATGGGAAGATAACCTGCTTCAACAACTTC AGCTTGGCCGCCCTGAGTCCTCCCCACATCCCGCCCACTCGCAAGTAGTTTCCACAGGG TACAGCAGACACGTGGCGGTCACTGTCACCCGCTTCCTTTGCGGCTTCCTGATCCCCGTC TTCATCATCACGGCCTGCTACCTTACCATCGTCTTCAAGCTGCAGCGCAACCGCCTGGCC AAGAACAAGAAGCCCTTCAAGATCATCATCACCATCATCACCCTTCTTCCTCTGCTGG  $\tt TGCCCCTACCACACCCTCTACCTGCTGGAGCTCCACCACACAGCTGTGCCAAGCTCTGTC$ TTCAGCCTGGGGCTACCCCTGGCCACGGCCGTCGCCATCGCCAACAGCTGCATGAACCCC ATTCTGTACGTCTTCATGGGCCACGACTTCAGAAAATTCAAGGTGGCCCTCTTCTCCCGC CTGGCCAACGCCCTGAGTGAGGACACAGGCCC]CTCCTCCTACCCCAGTCACAGGAGCTT CACCAAGATGTCGTCTTTGAATGAGAAGGCTTCGGTGAATGAGAAGGAGACCAGTACCCT CTGAACCTCACCTGGGAATGTCCCCCAAAGGTGCCACGGCCCAGGGACGCCTAGGGACTT GTCTCCGGAAGTGGGAGACATGCCGGGAGCCTTTGGGAATGCTCCAACGCCCACTGAATT  ${\tt TTGCACAAGGCGGCTCATGTTTTAAGTGGGGTTCCCAAGTGTGGACACTCTTCCAGTAAA}$ ATGGCAGGCAAGCAACCCGAGCTTCTACAACAGGAGCAGGGGACCGACTGTGACTC AGAAAAGGGAGCATTTCTGAAGCCAAGACTTGAGCTGTGACCAACATACAGGCCAACATA  ${\tt CACGATGTCGCCGTGCATGCCCTGAACATGCTGCGCAGTTTTCGTGGGTGAGGAAGTTAC}$ CGCAAACCCATTGCAGACCTGTTATGGCAACATGACAGTCAAACCAACAAAGCCCAATAC ACCCCAACATCCTCCAAGACCTTGACTTTGGATTTCAGAAGAACGGGGGGGTGGGGGGAAC GAGGACCTGAGGGTTAATTTCGAGCTTGGCGAAGCC

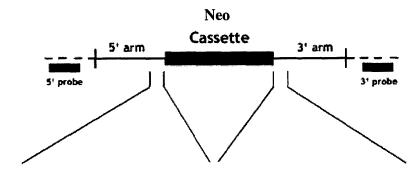
FIGURE 2A



## Targeting Vector\* (genomic sequence)

Construct Number: 993





5'>CCACAGAGGTCCTCAGCCTGT GACCCTGTCTTCCCTCACAGAGAT GGAGTACGACGCTTACAACGACTC CGGCATCTATGATGATGAGTACTC TGATGGCTTTGGCTACTTTGTGGA CTTGGAGGAGGCGAGTCCGTGGGA GGCCAAGGTGGCCCCGGTCTTCCT GGTGGTGATCTACAGCTTGGTGTG CTTCCTCGGTC<3'

(SEQ ID NO:2)

5'>TTCGGGAAGGCCATGTGCAAG ATCAGCAACTTCTTGCTCAGCCAC AACATGTACACCAGCGTCTTCCTG CTGACTGTCATCAGCTTTGACCGC TGCATCTCCGTGCTGCTCCCCGTC TGGTCCCAGAACCACCGCAGCATC CGCCTGGCCTACATGACCTGCTCG GCCGTCTGGGTCCTGGCTTTCTTC TTGAGCTCCCC<3' (SEQ ID NO:3)

FIGURE 2B